

**Appn No. 10/589,220**  
**Amdt date July 15, 2011**  
**Reply to Office action of April 15, 2011**

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1. (Original) A compound of the formula:



wherein

each R is a group comprising at least one carbon, nitrogen, phosphorus or sulfur atom and G is joined to R through said carbon, nitrogen, phosphorus or sulfur atom;

G is silicon or boron;

m is 2 to 5 and n is 1 to 3 with m + n = 3 to 6 when G is silicon;

m is 1 to 3 and n is 1 to 3 with m + n = 3 to 4 when G is boron;

and wherein the compound further comprises one or more counterions when the above formula is charged; and wherein at least one F is  $^{18}F$ .

2. (Original) The compound of claim 1 wherein one or more counterions are present when m + n = 5 or 6 and G is Si and when m + n = 4 and G is B;

3. (Previously Presented) The compound of claim 1 wherein G is silicon.

4. (Original) The compound of claim 3 wherein at least two of F are  $^{18}F$ .

5. (Previously Presented) The compound of claim 3 wherein:

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- (i)  $m = 2, n = 3;$
- (ii)  $m = 4, n = 1;$
- (iii)  $m = 5, n = 1;$
- (iv)  $m = 2, n = 2;$
- (v)  $m = 3, n = 1; \text{ or}$
- (vi)  $m = 3, n = 2.$

6. (Original) The compound of claim 5 wherein:

- (i)  $m = 2 \text{ and } n = 3;$
- (ii)  $m = 4 \text{ and } n = 1; \text{ or}$
- (iii)  $m = 5 \text{ and } n = 1.$

7. (Original) The compound of claim 5 wherein  $m = 4, n = 1.$

8. (Previously Presented) The compound of claim 1 wherein G is boron.

9. (Original) The compound of claim 8 wherein:

- (i)  $m = 1, n = 3;$
- (ii)  $m = 2, n = 2;$
- (iii)  $m = 3, n = 1;$
- (iv)  $m = 1, n = 2; \text{ or}$
- (v)  $m = 2, n = 1.$

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10. (Original) The compound of claim 9 wherein:
  - (i) m = 1 and n = 3;
  - (ii) m = 2 and n = 2; or
  - (iii) m = 3 and n = 1.
11. (Previously Presented) The compound of claim 1 wherein each R is joined to G through a nitrogen or carbon atom.
12. (Previously Presented) The compound of claim 1 wherein each R is joined to G through a carbon atom.
13. (Previously Presented) The compound of claim 1 wherein G is silicon and at least one R is selected from the group consisting of: aryl, amino, methyl, phenyl, aminophenyl, aminomethylphenyl, alkoxyethylphenyl, a porphyrin, a porphyrin derivative and a biomolecule.
14. (Previously Presented) The compound of claim 1 wherein G is boron and at least one R is selected from the group consisting of: aryl, amino, phenyl, methyl, aminophenyl, aminomethylphenyl, alkoxyethylphenyl, and a biomolecule.
15. (Previously Presented) The compound of claim 1 wherein at least one R is a moiety capable of bonding to a biomolecule.
16. (Previously Presented) The compound of claim 1 wherein at least one R is a biomolecule.

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17. (Previously Presented) The compound of claim 16 wherein the biomolecule is a sugar, a peptide, a nucleic acid or derivative or analog thereof.

18. (Original) The compound of claim 16 wherein the biomolecule is a hormone, somatostatin, growth hormone, VEGF, EGF, an antibody, a breast cancer antigen specific antibody, a prostate cancer antigen specific antibody, a melanoma antigen specific antibody, a ligand, a RGD-motif ligand recognizing a matrix metalloprotease, an aptamer, an aptamer recognizing a cell surface protein, folic acid, a folic acid derivative and a methotrexate or a derivative or analog thereof.

19. (Previously Presented) A compound according to claim 1 comprising more than one  $^{18}\text{F}$  atom.

20. (Previously Presented) A compound according to claim 1 comprising at least one  $^{19}\text{F}$  atom.

21. (Withdrawn) A composition comprising two or more different compounds each according to claim 1.

22. (Withdrawn) A composition comprising at least one compound according to claim 1 and at least one compound of formula



wherein R, G, M and n are as defined and F is a naturally occurring fluorine isotope.

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23. (Withdrawn) The composition of claim 22 wherein the naturally occurring isotope is  $^{19}\text{F}$ .
24. (Withdrawn) A composition comprising a compound according to claim 1 and a physiologically acceptable carrier or excipient.
25. (Canceled).
26. (Canceled).
27. (Canceled).
28. (Canceled).
29. (Canceled).
30. (Canceled).
31. (Canceled).
32. (Canceled).
33. (Canceled).
34. (Canceled).
35. (Canceled).

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36. (Canceled).

37. (New) A compound of the formula:



wherein

each R is a group comprising at least one carbon, nitrogen, phosphorus or sulfur atom and  
G is joined to R through said carbon, nitrogen, phosphorus or sulfur atom;

at least one R is an aryl group;

G is silicon or boron;

m is 2 to 5 and n is 1 to 3 with m + n = 3 to 6 when G is silicon;

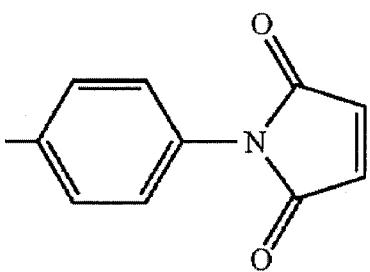
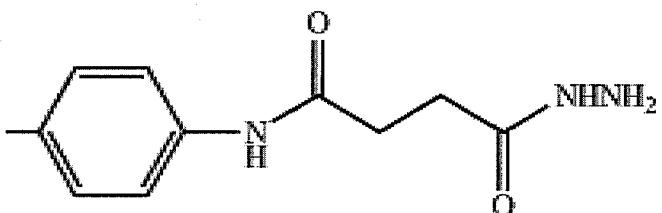
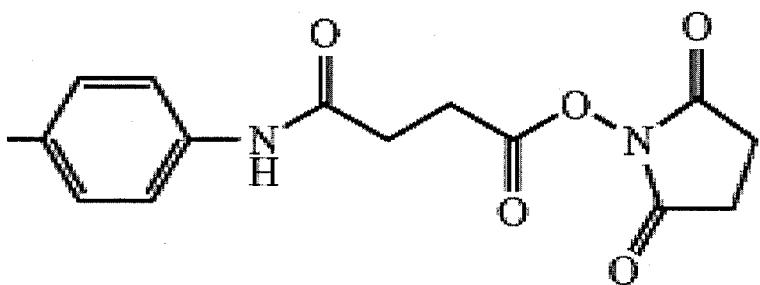
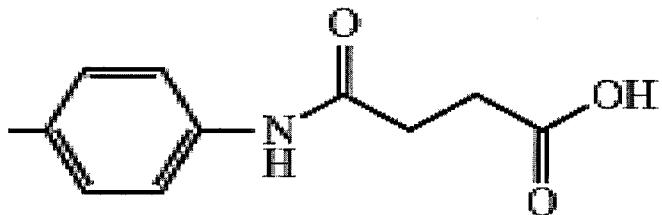
m is 1 to 3 and n is 1 to 3 with m + n = 3 to 4 when G is boron;

and wherein the compound further comprises one or more counterions when the above formula is charged; and wherein at least one F is  $^{18}F$ .

38. (New) The compound of claim 37, wherein the aryl group is selected from the group consisting of:



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